

ABSTRACT

The present invention provides a cubic boron nitride sintered body, which achieves both of superior chipping resistance and wear resistance.

In accordance with a first aspect of the present invention, a cubic boron nitride (cBN) sintered body contains cubic boron nitride particles and a bonding material used for bonding the cBN particles to one another. This sintered body is constituted by cBN particles in a range from 70 vol% to 98 vol% and a residual bonding material made from a Co compound, an Al compound and WC and a solid solution of these. Moreover, the cBN particles in the sintered body contain 0.03 wt% or less of Mg and 0.001 wt% or more to 0.05 wt% or less of Li.

In accordance with a second aspect of the present invention, the cubic boron nitride sintered body has a composition in which the bonding material of the first aspect is changed to an Al compound.